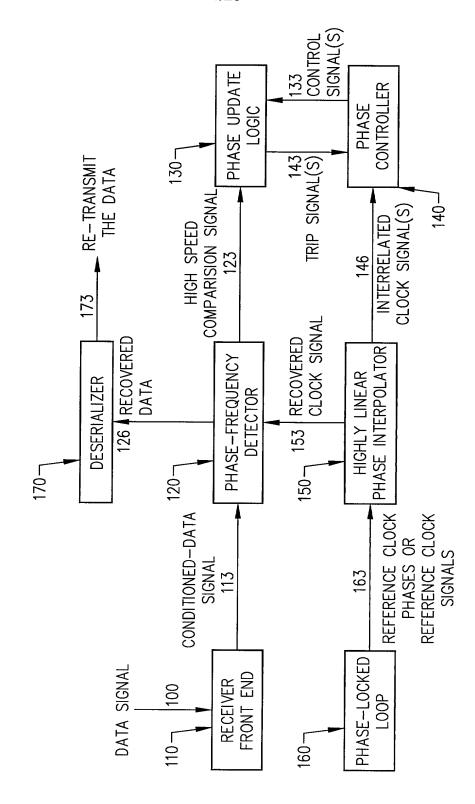
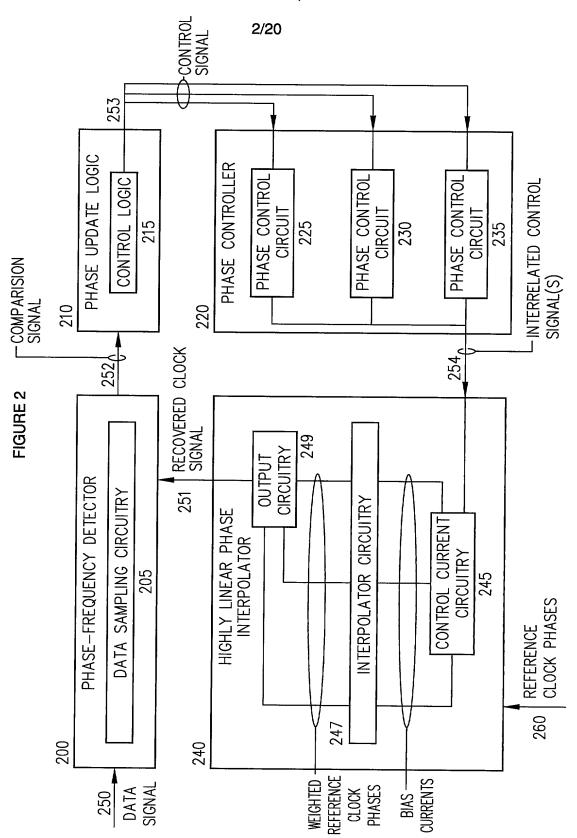
FIGURE 1

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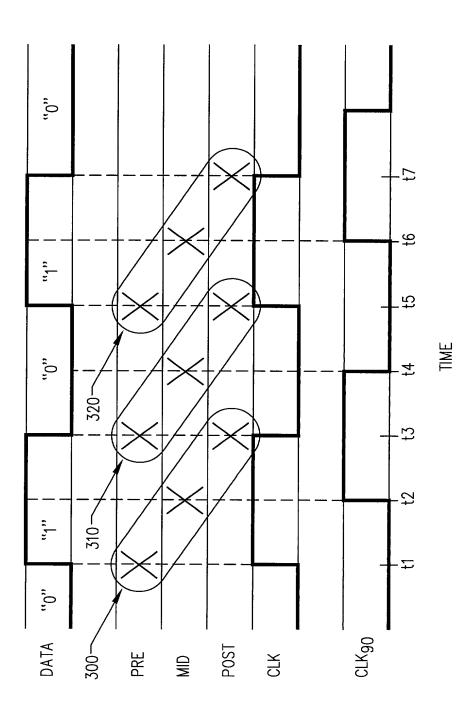


FIGURE 3A

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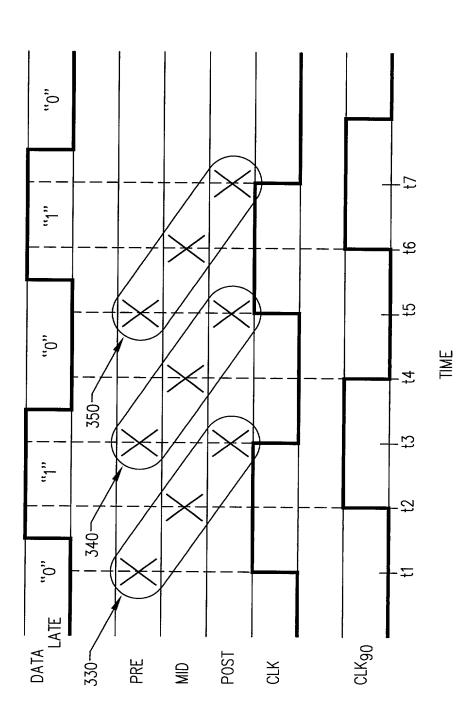


FIGURE 3B

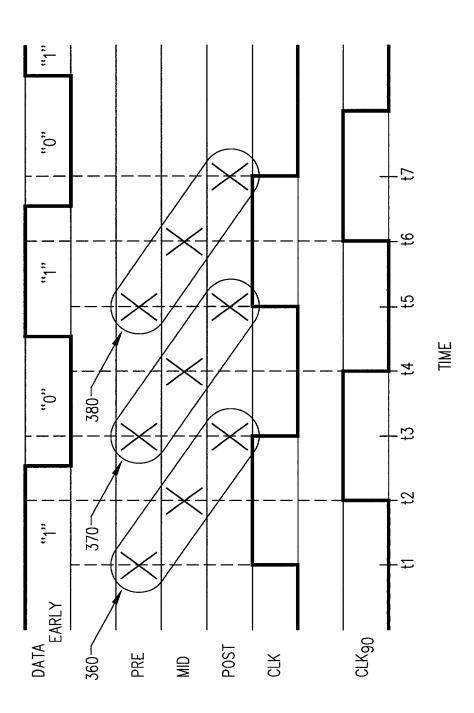
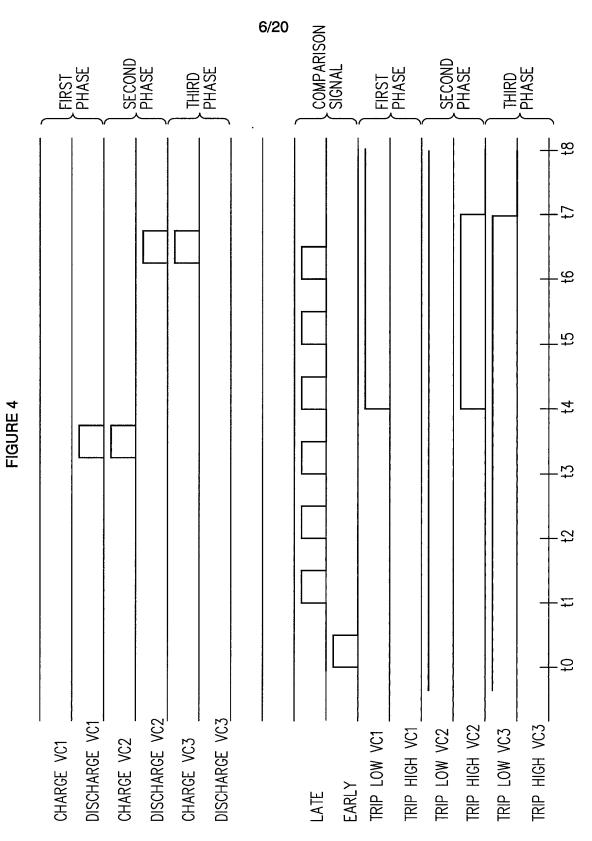
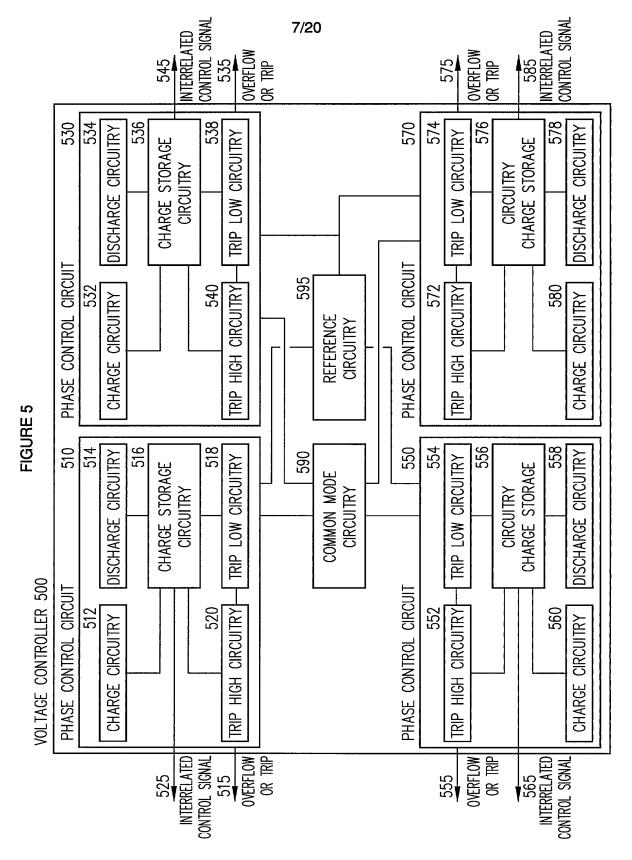


FIGURE 3C





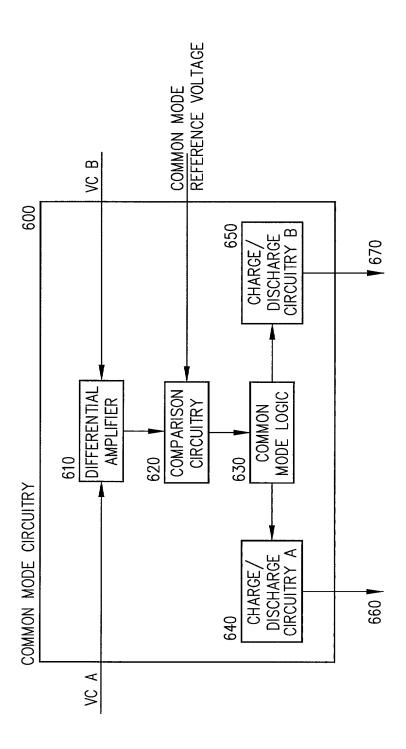
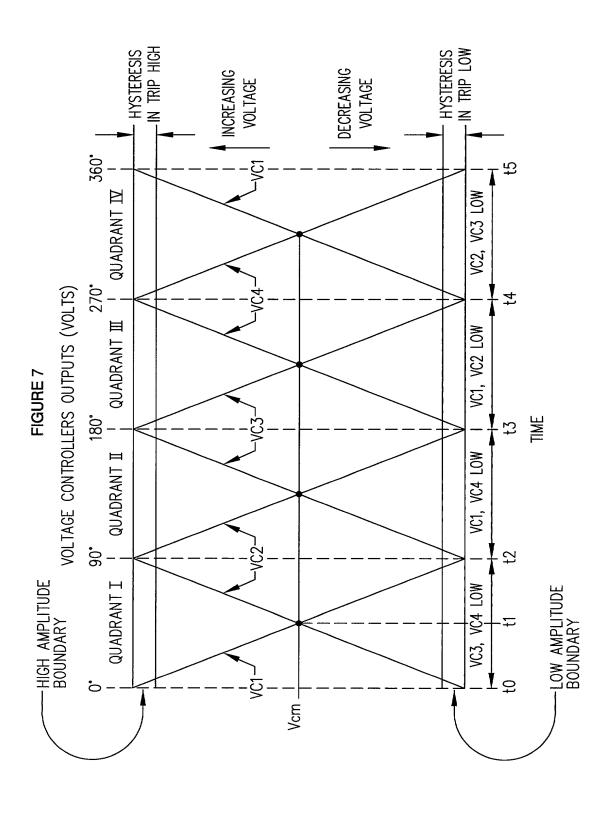
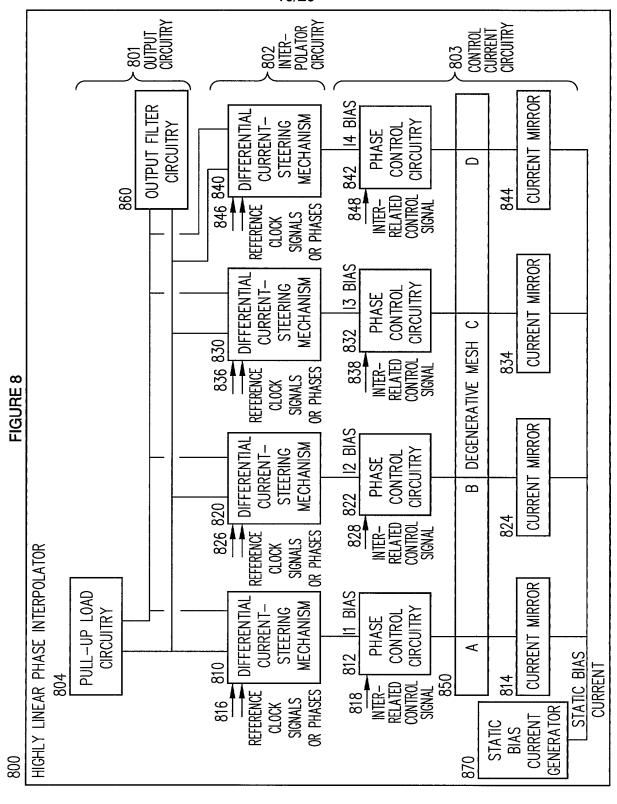
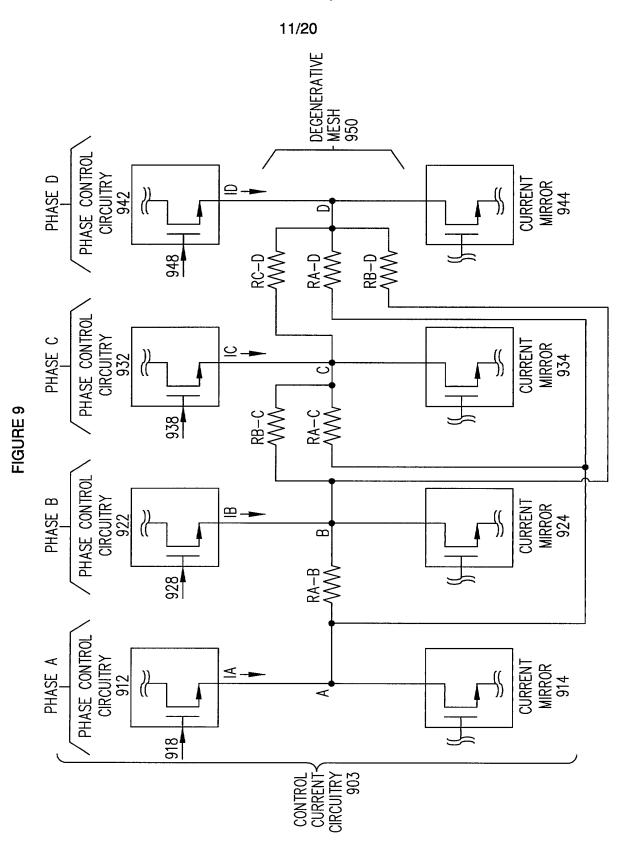


FIGURE 6







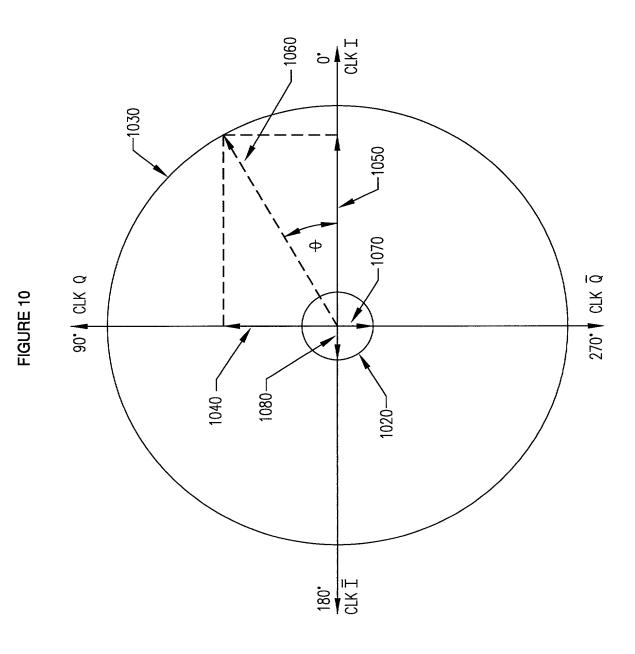
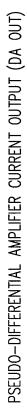
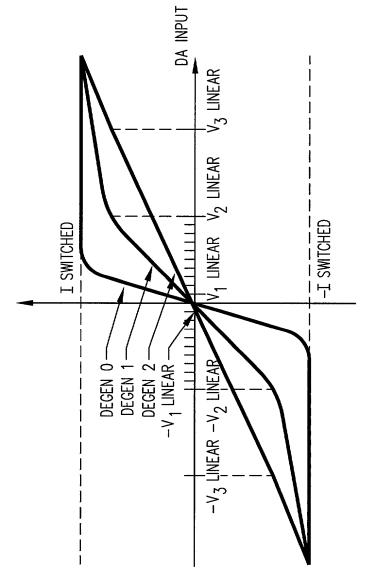


FIGURE 11

42390P12278 PHASE INTERPOLATOR BASED CLOCK RECOVERING ROBERT C. GLENN, et al.





PSEUDO-DIFFERENTIAL AMPLIFIER SWING RANGE BASED ON DEGENERATION

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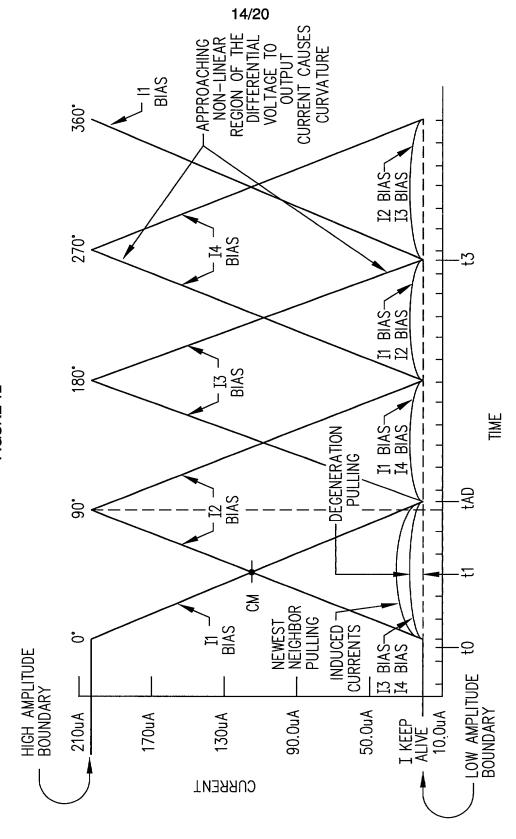
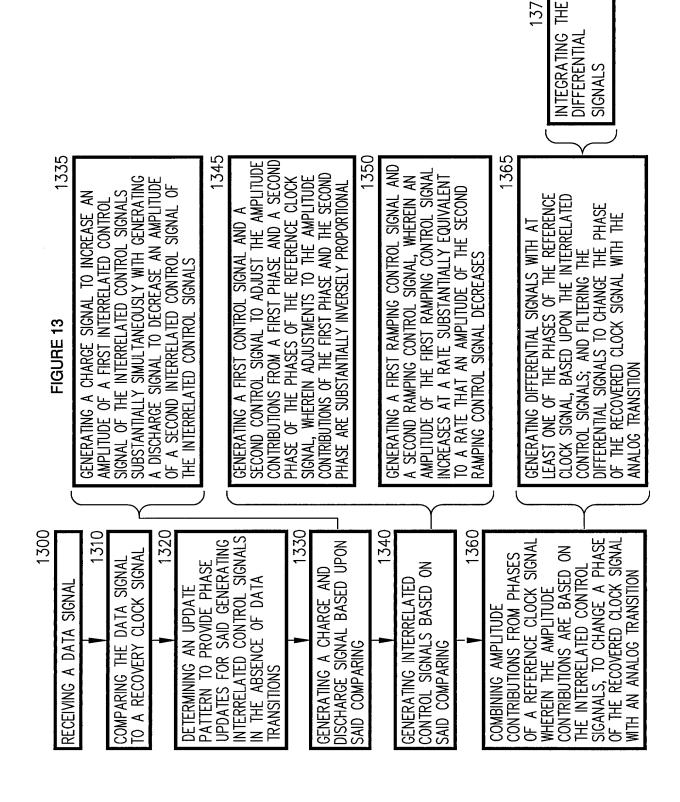


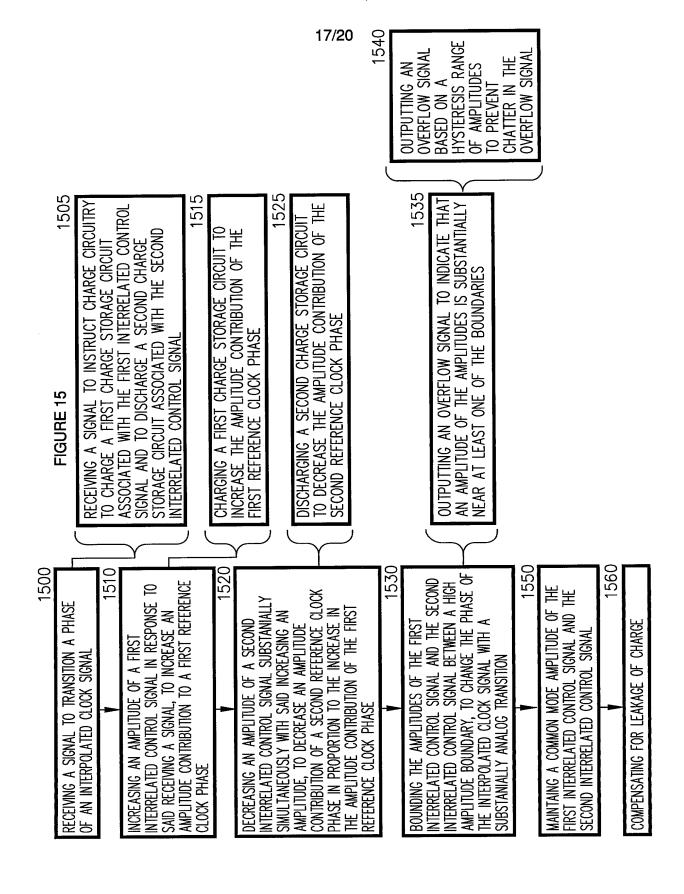
FIGURE 12

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RECEIVING A DATA SIGNAL	1410	GENERATING INTERRELATED CONTROL SIGNALS BASED ON SAID COMPARING 1440
	1420	COMBINING AMPLITUDE CONTRIBUTIONS FROM
COMPARING THE DATA SIGNAL TO A RECOVERED CLOCK SIGNAL	:	PHASES OF A REFERENCE CLUCK SIGNAL WHEREIN THE AMPLITUDE CONTRIBUTIONS ARE BASED ON THE INTERRELATED CONTROL SIGNALS,
		TO CHANGE A PHASE OF THE RECOVERED CLOCK SIGNAL WITH AN ANALOG TRANSITION



		0	
1630	DECREASING AN AMPLITUDE OF A SECOND INTERRELATED CONTROL SIGNAL SUBSTANTIALLY SIMULTANEOUSLY WITH SAID INCREASING AN AMPLITUDE, TO DECREASE AN AMPLITUDE CONTRIBUTION OF A SECOND REFERENCE CLOCK PHASE IN PROPORTION TO THE INCREASE IN THE AMPLITUDE CONTRIBUTION OF THE FIRST REFERENCE CLOCK PHASE	1640	BOUNDING THE AMPLITUDES OF THE FIRST INTERRELATED CONTROL SIGNAL AND THE SECOND INTERRELATED CONTROL SIGNAL BETWEEN A HIGH AMPLITUDE BOUNDARY AND A LOW AMPLITUDE BOUNDARY, TO CHANGE THE PHASE OF THE INTERPOLATED CLOCK SIGNAL WITH A SUBSTANTIALLY ANALOG TRANSITION
1600 MACHINE—READABLE MEDIUM 1610	RECEIVING A SIGNAL TO TRANSITION A PHASE OF AN INTERPOLATED CLOCK SIGNAL	1620	INCREASING AN AMPLITUDE OF A FIRST INTERRELATED CONTROL SIGNAL IN RESPONSE TO SAID RECEIVING A SIGNAL, TO INCREASE AN AMPLITUDE CONTRIBUTION OF A FIRST REFERENCE CLOCK PHASE

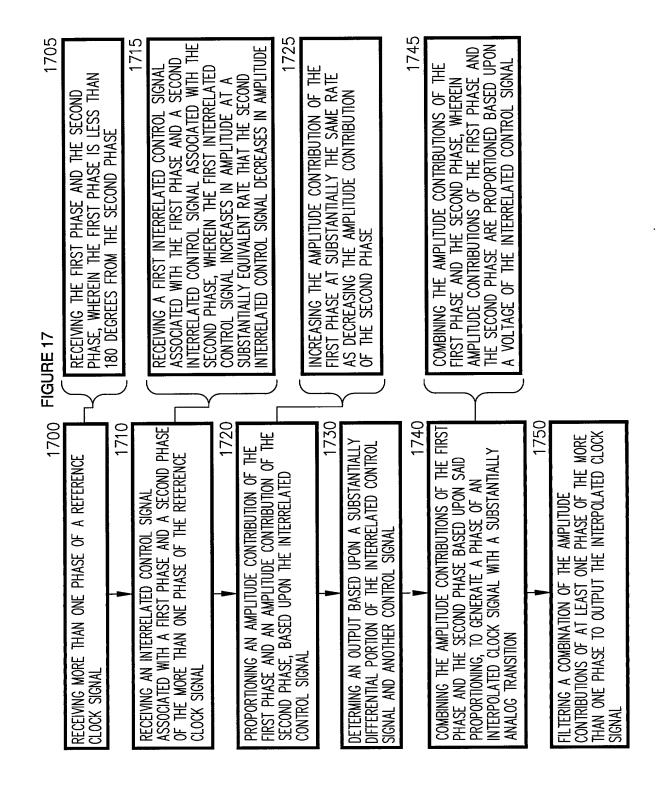


FIGURE 18

42390P12278 PHASE INTERPOLATOR BASED CLOCK RECOVERING ROBERT C. GLENN, et al.

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1840 1830 THE FIRST PHASE AND THE SECOND PHASE BASED PHASE OF AN INTERPOLATED CLOCK SIGNAL WITH PROPORTIONING AN AMPLITUDE CONTRIBUTION OF COMBINING THE AMPLITUDE CONTRIBUTIONS OF CONTRIBUTION OF THE SECOND PHASE, BASED UPON SAID PROPORTIONING, TO GENERATE A UPON THE INTERRELATED CONTROL SIGNAL THE FIRST PHASE AND AN AMPLITUDE A SUBSTANIALLY ANALOG TRANSITION 1820 1810 ASSOCIATED WITH A FIRST PHASE AND A SECOND PHASE OF THE MORE THAN ONE PHASE OF THE ⋖ RECEIVING AN INTERRELATED CONTROL SIGNAL RECEIVING MORE THAN ONE PHASE OF REFERENCE CLOCK SIGNAL MACHINE-READABLE MEDIUM REFERENCE CLOCK SIGNAL